IN THE CLAIMS:

Please amend claims 1- 22 as follows:

1. ~~Superconductive~~ A superconductive inductive component comprising: at least two terminals cooperating with a stack ~~(E)~~ of thin layers of alternately an electrically insulating material ~~(C2)~~ and a superconductive material ~~(C1)~~, and ~~comprising~~ further including tuning means ~~(M11, MA2)~~ producing a resistive connection between at least two of ~~these~~said superconductive layers ~~(C1, C1i)~~.

2. ~~Component~~ The component according to claim 1, characterized in that ~~this~~said stack ~~(E)~~ is positioned on a superconductive track ~~(LS)~~.

3. ~~Component according to one of claims 1 or 2, characterized in that~~ The component according to claim 1, wherein a connection between two of said superconductive layers connected by the tuning means has more or less uniform resistance in ~~the~~said stack.

4. ~~Component according to one of claims 1 or 2, characterized in that~~ The component according to claim 1, wherein a connection between two of said superconductive layers connected by the tuning means has a variable resistance within ~~the~~said stack.

5. ~~Component according to one of the preceding claims, characterized in that~~ The component according to claim 1, wherein the tuning means ~~(MA1, MA2)~~ comprise at least one substance applied to all or part of the section of ~~the~~ said stack so as to produce a resistive connection between at least two superconductive layers.

6. ~~Component~~ The component according to claim 5, characterized in that the tuning means ~~(MA1)~~ have resistance characteristics which vary as a function of a physical or chemical variable, termed a control variable, specific to the environment of the component.

7. ~~Component according to one of claims 5 to 6, characterized in that~~ The component according to claim 5, wherein the tuning means ~~(MA2)~~ have a resistance controlled by an exposure or a variation of exposure to a light radiation ~~(ME)~~.

8. ~~Component according to one of claims 5 to 7, characterized in that~~ The component according to claim 5, wherein the tuning means ~~(MA1)~~ have a resistance controlled by a variation of temperature.

9. ~~Component according to one of claims 5 to 8, characterized in that~~ The component according to claim 5, wherein the tuning means ~~(MA1)~~ have a resistance controlled by an exposure or a variation of exposure to a magnetic field.

10. ~~Component according to one of claims 5 to 9, characterized in that~~ The component according to claim 5, wherein the tuning means ~~(MA1)~~ have a resistance controlled by an exposure or a variation of exposure to an electric field.

11. ~~Component according to one of claims 5 to 10, characterized in that~~ The component according to claim 5, wherein the tuning means ~~(MA1, MA2)~~ comprise a compound constituted by a polymer including metal particles.

12. ~~Component according to one of the preceding claims, characterized in that~~ The component according to claim 1, wherein the tuning means comprise means for controlling the resistance of at least one connection between two superconductive layers ~~(C1, C1i)~~ connected by ~~these~~ said tuning means.

13. ~~Component~~ The component according to claim 12, characterized in that the control means include an electric or electronic circuit ~~(CXi, CR)~~ for controlling the electrical resistivity or resistance between at least two superconductive layers connected by the tuning device.

14. ~~Electronic~~ An electronic device including a superconductive inductive component comprising at least two terminals cooperating with a stack of thin layers of alternately an electrically insulating material and a superconductive material, and ~~comprising~~ further includes tuning means producing a resistive connection between at least two of ~~these~~ said superconductive layers.

15. ~~Device~~ The device according to claim 14, further configured for providing an optoelectronic transducer function.

16. ~~Device according to claim 14, characterized in that it also comprises~~ The device according to claim 14, further including a capacitive component and ~~provides~~ providing a delay line function.

17. ~~Device according to one of claims 14 to 16, characterized in that it~~ The device according to claim 14, wherein said device produces at least one antenna including an inductive superconductive component.

18. ~~Device according to one of claims 16 or 17,~~ The device according to claim 16, being implemented in a phase shift radar device comprising a plurality of antennae each comprising an electronic circuit including at least one delay line, ~~this~~ said delay line being arranged such that each of said antennae transmits or receives a signal the phase of which is shifted relative to that of the neighbouring antennae.

19. ~~Device according to one of claims 17 or 18,~~ The device according to claim 17, being implemented in a medical imaging device comprising at least one antenna including a superconductive inductive component the tuning means of which enable said antenna to be tuned.

20. (Currently Amended) ~~Method~~ A method for the production of a superconductive inductive component with a determined inductance value, ~~characterized in that it comprises~~comprising: a phase of depositing a stack of alternately superconductive and insulating thin layers on a substrate, followed by a phase of depositing on all or part of the section of ~~this~~ the stack at least one tuning layer with a material which produces between a plurality of ~~these~~ said superconductive layers an electrical connection with a determined resistance, selected according to said inductance value.

21. (Currently Amended) ~~Method~~ A method for the production of a superconductive inductive component having controllable inductance characteristics, ~~characterized in that it comprises~~ comprising: a phase of depositing a stack of alternately superconductive and insulating thin layers on a substrate, followed by a phase of depositing on all or part of the section of ~~this~~ the stack at least one tuning layer, producing between a plurality of ~~these~~ said superconductive layers an electrical connection with a resistance varying as a function of a physical or chemical variable of the environment of ~~this~~said tuning layer.

22. (Currently Amended) ~~Method~~ A method according to ~~one of claims 20 or 21, characterized in that~~,claim 20, wherein after the phase of depositing a stack, the component has a so-called intermediate inductance value, and ~~in that~~ the phase of depositing the tuning layer enables a reduction of the inductance of the component relative to its intermediate inductance.